



Speak Up 2007

Teacher Survey

State: NH

Results based on 205 survey(s).

Responses to the science-specific questions (Q19-Q22) are based on total number of unique Survey ids for the school (or district, if it is a district report) and not the number of teacher who self-selected as science teachers

1 What is your current job responsibility?

Response	# of Responses	% of Responses	National %
Classroom teacher	99	48%	74%
Instructional aide	32	16%	3%
Special education teacher	16	8%	8%
Curriculum specialist	4	2%	2%
Librarian or media coordinator	13	6%	3%
School technology coordinator	5	2%	2%
Preservice Teacher	0	0%	0%
Other	36	18%	8%

2 What grade(s) do you currently teach?

Response	# of Responses	% of Responses	National %
pre-K	3	1%	2%
K-2	27	13%	17%
3-5	41	20%	21%
6-8	76	37%	23%
9-12	26	13%	26%
Ungraded	6	3%	2%
All grades	22	11%	9%

3 What subject area do you currently teach? (Select one)

Response	# of Responses	% of Responses	National %
Multiple subject (elementary)	52	25%	34%
English	26	13%	9%
Math	10	5%	9%
Social Studies or History	8	4%	5%
Science	6	3%	6%
Foreign language	2	1%	2%
Visual and performing arts	11	5%	4%
Yearbook or Journalism	0	0%	0%
Physical education	3	1%	3%
Technology	17	8%	4%
Business	3	1%	1%
Career Technical Education	0	0%	2%
Special education	17	8%	7%
English as a second language	0	0%	1%
Other	44	21%	11%

4 Thinking about other teachers at your school, do you consider yourself

Response	# of Responses	% of Responses	National %
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An advanced tech user – more expert than most	67	33%	33%
An average tech user – the same as most	110	54%	56%
A beginner tech user – your skills are not as developed as most	22	11%	11%

5 Which of these activities do you do regularly using technology?

Response	# of Responses	% of Responses	National %
Create a multimedia presentation like Powerpoint	89	43%	59%
Create or listen to podcasts or videos	51	25%	35%
Download music	62	30%	37%
Email or IM a colleague or parent	181	88%	93%
Email or IM a student	52	25%	34%
Go to TV show websites to give feedback or vote	32	16%	15%
Maintain a personal website like MySpace or Facebook	39	19%	21%
Participate in online communities	57	28%	21%
Participate in virtual reality environments like Second Life	6	3%	2%
Personalize news feeds	14	7%	7%
Play online games	49	24%	29%
Read or post blog or wiki entries	44	21%	20%
Remix content (such as music, video, text)	23	11%	9%
None of the above	10	5%	2%

6 How do you use technology to facilitate student learning?

Response	# of Responses	% of Responses	National %
Set student objectives.	63	31%	43%
Provide feedback to students.	68	33%	43%
Share exemplary student work in classroom, school or with parents.	49	24%	32%
Create cues, questions or advanced organizers.	63	31%	41%
Create physical models or use pictures to represent knowledge.	66	32%	43%
Students create movies or animation projects.	40	20%	16%
Notetaking and synthesis of information.	73	36%	39%
Facilitate group collaboration and structure.	43	21%	28%
Track the relationship between effort and achievement.	37	18%	19%
Create graphic organizers for comparing, classifying, creating metaphors and analogies.	73	36%	43%
Homework and practice.	88	43%	51%
Conduct investigations.	52	25%	25%
None of the above.	15	7%	8%

7 In addition to knowing core content subjects, which of these skills do you think is most important for a student to be successful in the 21st century?

Response	# of Responses	% of Responses	National %
Ability to work in a global society	103	50%	59%
Communicate in more than one language	62	30%	36%
Collaboration skills	120	59%	62%
Communication skills	155	76%	80%
Contextual learning skills	60	29%	33%

Creativity and innovation skills	97	47%	51%
Effectively use technology	137	67%	73%
Experience solving complex problems and thinking through new ideas	121	59%	63%
Information and media literacy skills	101	49%	46%
None of the above	0	0%	0%
Other	7	3%	3%

8 Which tools are you using to develop the 21st century skills you selected above?

Response	# of Responses	% of Responses	National %
Digital whiteboards	32	16%	26%
E-mail, IM, blogs, wikis, or other Web 2.0 tools	112	55%	68%
Gaming technologies	22	11%	17%
Multi-media projects	81	40%	48%
Social networking tools	25	12%	16%
Student Response Systems	14	7%	16%
Virtual field trips	42	20%	22%
Podcasts	20	10%	7%
Virtual reality environments (e.g. Second Life)	2	1%	2%
None	23	11%	9%
Other	15	7%	6%

9 A new, emerging trend in education is the use of gaming technologies to provide contextual learning. Which of these statements describe your interest in this new trend?

Response	# of Responses	% of Responses	National %
I would be interested in learning more about integrating gaming technologies into my instructional strategies.	80	39%	51%
I would be interested in professional development in this.	87	42%	46%
I currently integrate gaming technologies into my classroom.	14	7%	11%
I would be interested in sharing ideas about gaming with other teachers	12	6%	7%
I would be interested in learning more about promising practices in gaming.	74	36%	29%
I am not interested in using gaming technologies in my classroom.	30	15%	12%

10 From what you have heard about using gaming technologies as an instructional tool, what do you think the value would be in your classroom?

Response	# of Responses	% of Responses	National %
Appeals to different learning styles	107	52%	65%
Increase student motivation and engagement.	110	54%	65%
Opportunities for students to develop their creativity.	73	36%	39%
Provides environment to visualize difficult concepts.	58	28%	35%
Student-centered learning.	72	35%	47%
Students can create models and test their assumptions.	47	23%	23%
Students can develop their collaboration skills.	49	24%	28%
Students can develop their problem-solving and critical thinking skills	71	35%	40%
Students can more deeply explore an idea through the virtual world.	46	22%	24%
Students can practice their skills and develop expertise.	56	27%	31%
Students gain experience through "trial and error."	75	37%	37%

Students learn that failure is an opportunity to learn.	64	31%	30%
I don't see the value of using gaming technologies in my classroom.	11	5%	6%
None of the above.	20	10%	8%

11 In the past 12 months, how have you been involved with online learning?

Response	# of Responses	% of Responses	National %
Explored opportunities for integrating online learning into my classroom.	58	28%	33%
Taught an online class.	4	2%	3%
Used a learning management system in my class.	15	7%	11%
Took an online class for personal enrichment.	22	11%	12%
Took an online class for career advancement.	25	12%	16%
Took an online class for professional development.	38	19%	21%
No involvement - but I'm interested.	70	34%	31%
No involvement - not interested.	17	8%	9%

12 What is your preferred method for professional development?

Response	# of Responses	% of Responses	National %
School or district-provided trainings	113	55%	62%
Podcasts, webcasts or videoconferencing	15	7%	8%
Peer-to-peer and study teams (in person)	60	29%	32%
Peer-to-peer and study teams (on line)	19	9%	7%
Online course	48	23%	26%
Conferences	108	53%	38%
Summer externships with local companies	8	4%	8%
School-based just-in-time mentoring	12	6%	7%
Publisher/vendor training	12	6%	8%
Other	12	6%	2%

13 What are the primary benefits of online professional development for you?

Response	# of Responses	% of Responses	National %
Fits my schedule	115	56%	66%
Saves time	59	29%	40%
Less expensive than alternatives.	59	29%	24%
I can control my own learning.	68	33%	41%
Supports my learning style.	39	19%	19%
Provides access to experts.	40	20%	15%
Just-in-time -- when I need it.	19	9%	14%
Other	2	1%	1%
None of the above.	31	15%	11%

14 There is a national discussion underway about the value of mobile learning devices such as laptops, smart cell phones, PDAs and MP3 players in education. What do you think is the most significant value of incorporating such devices into instruction?

Response	# of Responses	% of Responses	National %
Development of strong communications skills	51	25%	33%
Extends learning beyond the school day	77	38%	45%
Improves teacher skills with technology	71	35%	39%
Improves teacher-parent-student communications	46	22%	35%
Increases student engagement in	90	44%	51%

school and learning			
Increases teacher productivity	37	18%	23%
Personalized instruction	57	28%	30%
Prepares students for world of work	69	34%	41%
Provides opportunities for informal remediation	41	20%	20%
Students develop collaboration and teamwork skills	39	19%	21%
Students develop critical thinking and problem solving skills	50	24%	26%
No significant benefit	10	5%	6%
Other	5	2%	2%

15 Besides funding, what's needed to effectively utilize mobile devices or online learning in your classroom?

Response	# of Responses	% of Responses	National %
Examples of effective classroom practices.	98	48%	59%
Ensure that all students have access to devices or software.	120	59%	65%
District support for use of these devices.	104	51%	53%
Teachers I could talk to about incorporating the devices into my instruction.	60	29%	36%
School policies that allow the use of these tools.	73	36%	33%
Professional development on how to effectively integrate these devices into my instructional strategies.	109	53%	58%
Ongoing mentoring	65	32%	29%
Ongoing technical support	105	51%	52%
These devices are a distraction and should not be incorporated into the classroom.	5	2%	3%
Other	7	3%	3%

16 Many teachers are tapping into "open educational resources" from the Internet to support classroom instruction. Which of these types of Internet-based open educational resources have you used in the past 12 months? (Select any that apply.)

Response	# of Responses	% of Responses	National %
A subject-specific website portal.	84	41%	49%
A test-bank with items to build my own assessments	28	14%	29%
A collection of streaming videos to support my lessons	37	18%	43%
Interactive simulations to support my lessons	30	15%	22%
Online experiments to use with my class	21	10%	12%
"Pre-packaged" course curriculum	28	14%	17%
Interchangeable modules to create my own course	10	5%	5%
Just-in-time online teaching support	10	5%	6%
Nuggets of teaching ideas and background information.	55	27%	31%
Video clips of teaching demonstrations in my content area	19	9%	21%
Blogs, message boards or discussion groups where teachers can share success stories, struggles and challenges	32	16%	13%
None of the above	34	17%	12%

17 What is the primary way that you interact with open educational resources to support instruction in your classroom?

Response	# of Responses	% of Responses	National %
I use online resources in my classroom just the way I find them without editing, modifying or customizing.	23	11%	23%
I customize the online resources I find with my own ideas, materials and resources before using them in my classroom.	76	37%	43%
I review online resources to get ideas to help me create new lesson plans and classroom activities.	89	43%	52%
I update my pre-existing lesson plan or classroom activity with resources that I found online.	72	35%	41%
I post online resources that I have developed and tested in my own classroom for other teachers to use.	7	3%	7%
I have trouble finding high quality online open educational resources to support instruction in my classroom.	9	4%	7%
I don't have the technology infrastructure to use online resources in my classroom.	12	6%	3%
I don't use online resources in my classroom.	18	9%	5%
None of the above	15	7%	4%
Other	2	1%	1%

18 Business and policy leaders believe that scientific knowledge is critical to improving our nation's economic competitiveness. To what extent do you agree that improving K-12 science education should be a top national education issue?

Response	# of Responses	% of Responses	National %
Strongly disagree	22	11%	10%
Disagree	8	4%	3%
Agree	65	32%	40%
Strongly agree	60	29%	29%
No opinion	7	3%	7%

If you don't teach science skip to question 23

19 In your classroom, which instructional strategies do you use to teach students science? (Choose all that apply.)

Response	# of Responses	% of Responses	National %
Facilitate inquiry-based investigations	33	16%	25%
Lecture	24	12%	23%
Kit-based materials	24	12%	21%
Facilitate hands-on activities to demonstrate science concepts.	45	22%	30%
Conduct demonstration lessons	34	17%	26%
Explore scientific concepts using multimedia and interactive simulations.	21	10%	16%
Provide opportunities for students to conduct original research.	19	9%	12%
Use probeware to facilitate the collection, visualization, analysis and presentation of scientific data.	2	1%	3%
Help students realize science is relevant in their life.	37	18%	26%
Give students multiple opportunities to develop their scientific expertise.	21	10%	14%
Use virtual environments to develop students' scientific expertise.	7	3%	5%
Assign projects that develop students problem-solving, critical thinking skills.	28	14%	16%

Introduce students to science professionals	7	3%	5%
Other	4	2%	4%

20 Researchers recommend that schools should make greater use of 21st century tools to teach science. Which of these tools have the greatest potential for increasing student achievement in science?

Response	# of Responses	% of Responses	National %
Animations to help students visualize difficult concepts.	39	19%	25%
Digital media tools for presenting scientific findings.	23	11%	16%
Digital whiteboards to help facilitate student discussions of scientific findings.	21	10%	17%
Interactive simulations that allow students to practice scientific expertise.	39	19%	23%
Probeware that facilitates the collection, visualization, analysis and presentation of scientific data.	15	7%	10%
Projection systems to assist with demonstrations.	21	10%	17%
Standard lab tools and apparatus (e.g. microscopes, Bunsen burners)	28	14%	19%
Videoconferencing to connect with professionals.	16	8%	8%
Visualizing software to organize ideas.	11	5%	8%
Web 2.0 tools to facilitate student research & collaboration	10	5%	4%
Other	0	0%	2%

21 Thinking about your own classroom, what are the primary barriers to teaching inquiry-based science?

Response	# of Responses	% of Responses	National %
I am currently teaching outside of my scientific expertise.	10	5%	3%
Pressure to conform to a "prescribed" curriculum	20	10%	12%
District and/or school focus on state science assessments	20	10%	11%
Inadequate equipment and/or materials	28	14%	16%
Lack of time to conduct scientific investigations.	32	16%	23%
Lack of funding to purchase materials	22	11%	14%
Lab preparation is too time consuming	9	4%	9%
Inadequate space to conduct scientific investigations	15	7%	10%
Lack of well-developed science investigations tied to the standards	10	5%	6%
Lack of investigations aligned to my textbook.	5	2%	3%
Lack of student interest	0	0%	2%
I don't see the need to teach inquiry based science	2	1%	1%
Other	9	4%	5%

22 If you were considering integrating 21st century tools or strategies into your science instruction, what factors would you consider?

Response	# of Responses	% of Responses	National %
Available funding/cost	36	18%	27%
Brochures or catalogs	8	4%	5%
Conference presentations	23	11%	9%
Demonstrated improvements in student achievement	12	6%	14%
Ease of integration into my classroom	35	17%	24%

I don't have the opportunity to influence these decisions	7	3%	5%
Mandate by site or district administration	4	2%	3%
Recommendations from peers	17	8%	12%
Recommendations from teachers outside my district	13	6%	7%
Research or best-practices	25	12%	15%
Supporting curricular resources (e.g. lesson plans, website, teaching guides)	16	8%	14%
Vendor presentations or workshops	11	5%	5%
Website	7	3%	4%
Other	4	2%	2%

23 Do you think that your school is doing a good job of preparing today's students for the jobs of the 21st century?

Response	# of Responses	% of Responses	National %
Yes	56	27%	47%
No	35	17%	14%
Not Sure	57	28%	20%
No Opinion	7	3%	3%
I have not thought about this before.	6	3%	2%
I do not think this is the responsibility of K-12 education.	0	0%	0%

24 Imagine you are designing the ultimate school for 21st century learners. Which of these tools or strategies do you think holds the greatest potential for increasing student achievement and success?

Response	# of Responses	% of Responses	National %
1:1 laptops	117	57%	58%
Access to online databases for research	82	40%	47%
Career technical education classes	66	32%	38%
Digital equipment for creating multi-media projects	79	39%	42%
Games/Virtual Simulations	39	19%	26%
Interactive white boards in every classroom	66	32%	45%
Learning management systems	22	11%	19%
Mobile learning devices (PDAs, MP3 players, graphing calculators)	52	25%	26%
Online Classes	37	18%	23%
Online tools to streamline communications between teachers, parents, students	53	26%	29%
School portal	29	14%	17%
Student access to email and IM accounts from school	29	14%	21%
Student response systems	24	12%	21%
Unlimited student access to the internet	24	12%	11%
Web 2.0 tools such as blogs, social networking sites, wikis	27	13%	10%
Other	9	4%	3%

25 Open Ended: The business and higher education community has been very vocal about the need for improvements in science, technology, engineering and math (STEM) education. Now it is your turn. What is the one thing you would like to tell our national leaders about what should be done today to create a foundation for excellence in K-12 STEM education?

Note: Text responses too numerous to display. Highlights and summaries will be included in the national report. Please contact speakup@tomorrow.org to request your open ended responses.

26 Gender

Response	# of Responses	% of Responses	National %
Female	139	68%	72%
Male	21	10%	16%

**27 At the end of this school year, how many years of teaching experience will you have?
(Include both public and private school experience)**

Response	# of Responses	% of Responses	National %
1-3	19	9%	13%
4-10	55	27%	27%
11-15	19	9%	16%
16+	67	33%	32%

28 Highest level of educational attainment

Response	# of Responses	% of Responses	National %
Bachelor's degree	49	24%	22%
Teaching certificate - elementary/multiple subject	19	9%	13%
Teaching certificate - single subject	5	2%	6%
Masters degree in education	66	32%	36%
Masters degree other than education	14	7%	9%
Doctorate degree	1	0%	1%

29 Race or cultural identity

Response	# of Responses	% of Responses	National %
American Indian/Alaskan Native	3	1%	1%
Asian	1	0%	1%
Black/African-American	0	0%	4%
Caucasian/White (non-Hispanic)	153	75%	74%
Hispanic/Latino	1	0%	4%
Native Hawaiian/Other Pacific Islander	0	0%	0%
Other	2	1%	2%

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